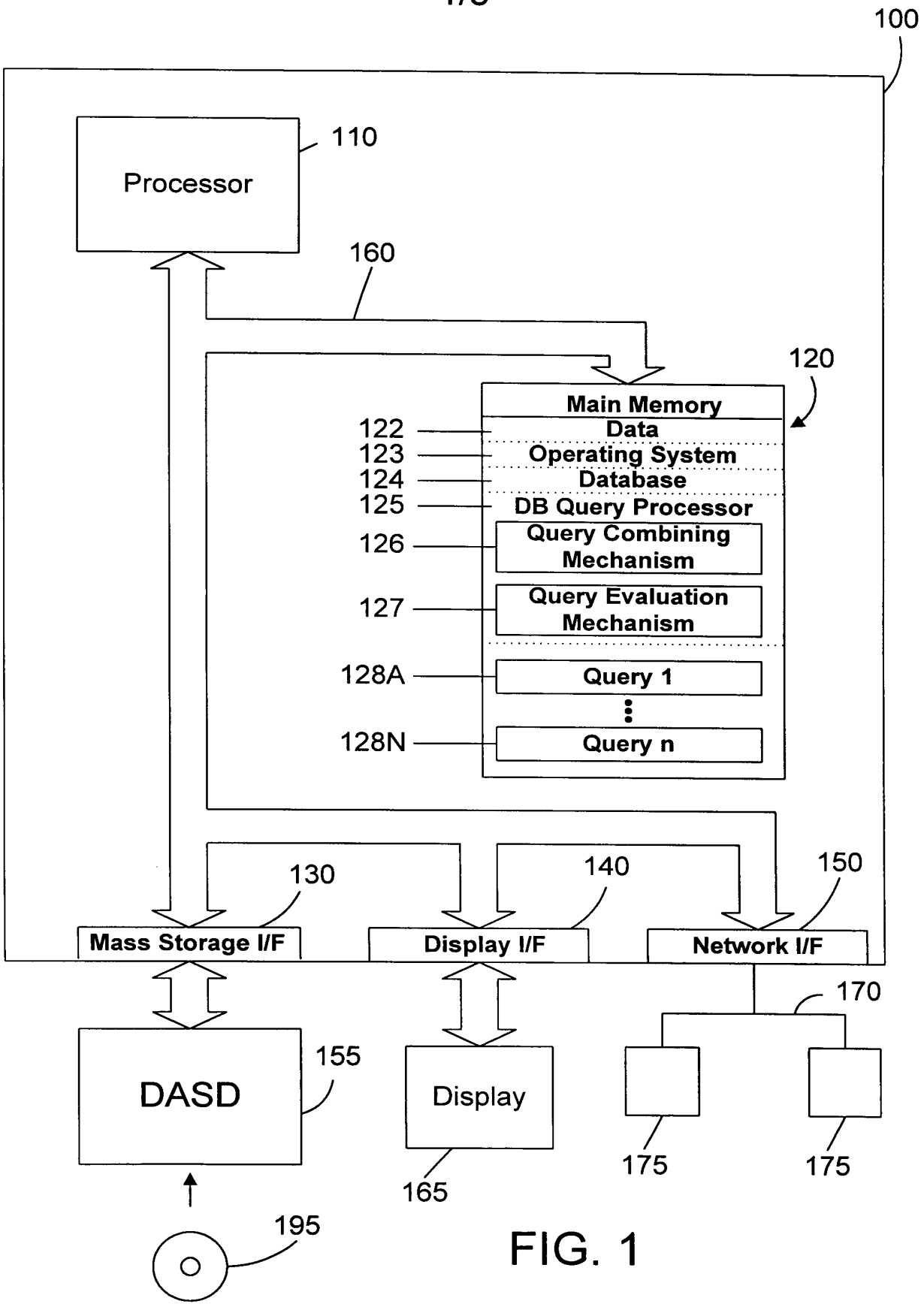
100
Processor
110
160
120
Main Memory
122
Data
123
Operating System
124
Database
125
DB Query Processor
126
Query Combining Mechanism
127
Query Evaluation Mechanism
128A
Query 1
128N
Query n
130
140
150
Mass Storage I/F
Display I/F
Network I/F
170
DASD
155
Display
165
175
175
195

FIG. 1

Select * from Table1 where C1=4 AND (C2>6 OR C3!=8)

FIG. 2

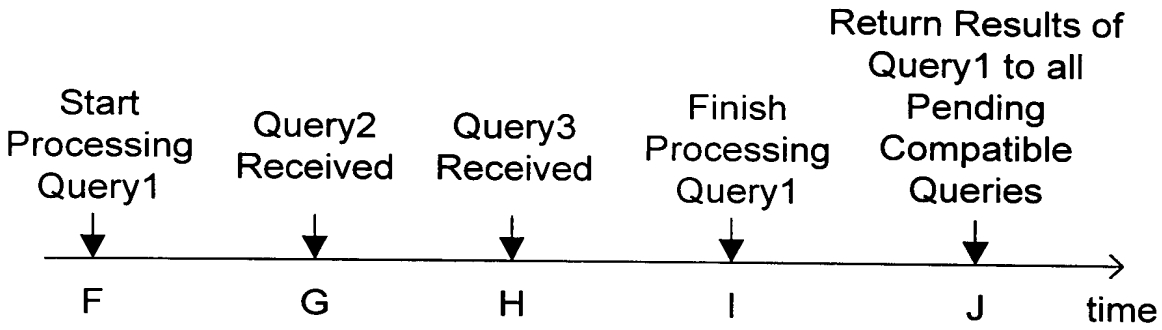

FIG. 3

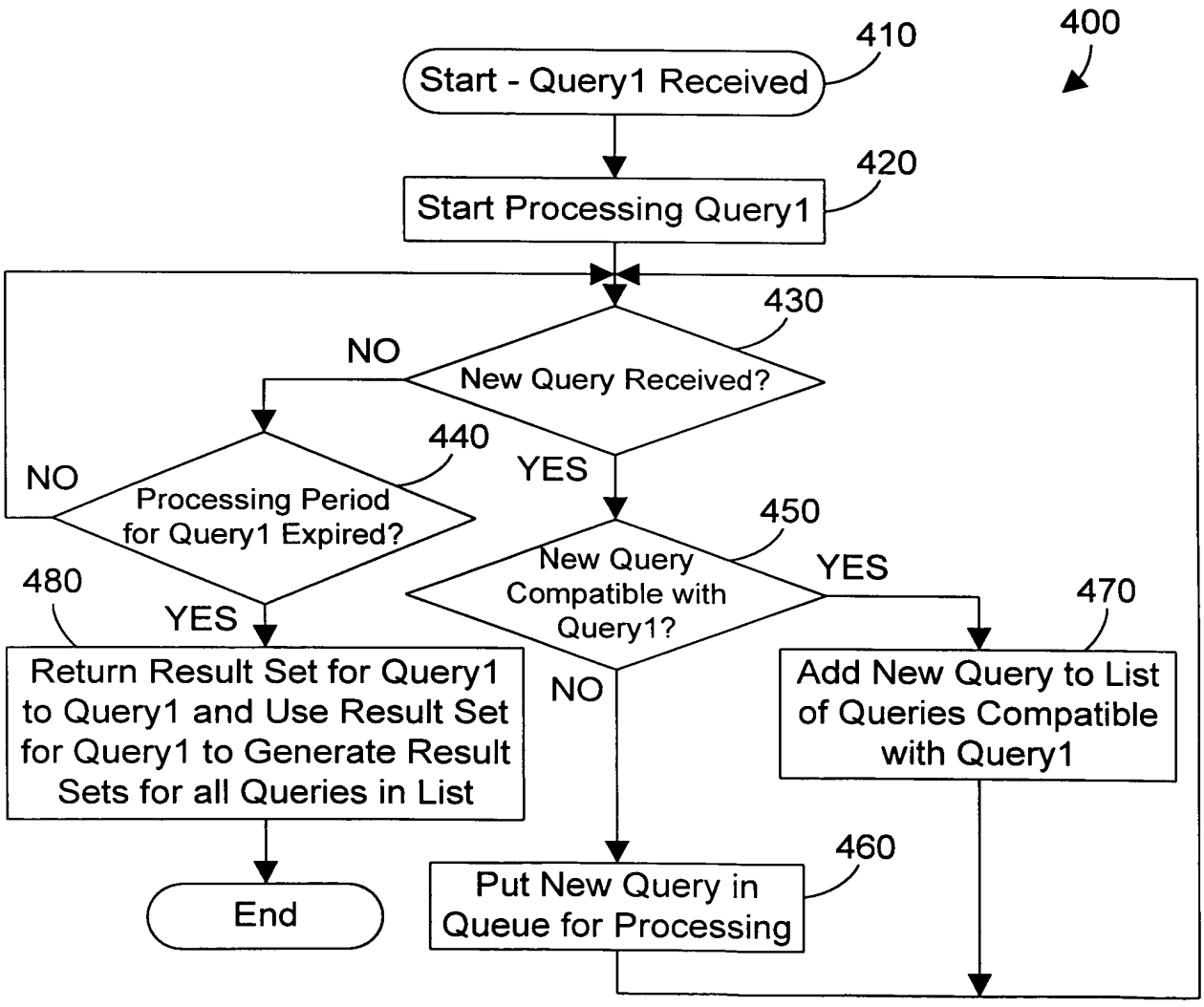

FIG. 4

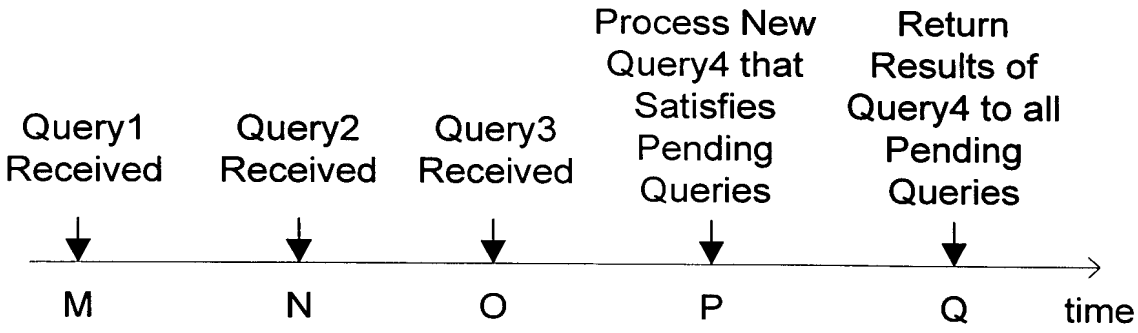
Query1 Received
Query2 Received
Query3 Received
Process New Query4 that Satisfies Pending Queries
Return Results of Query4 to all Pending Queries
M
N
O
P
Q
time

FIG. 5

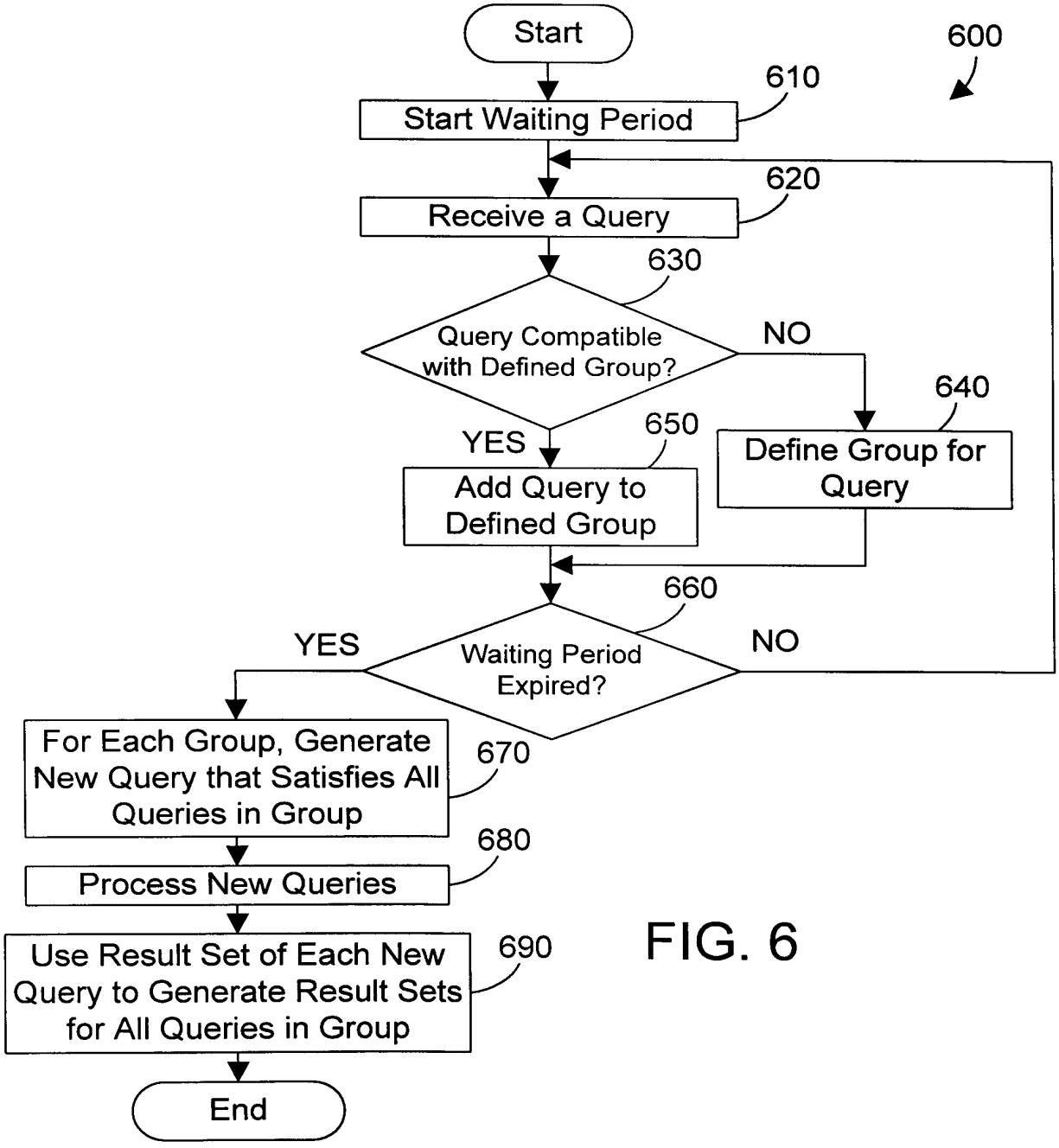
Start
600
610
Start Waiting Period
620
Receive a Query
630
Query Compatible with Defined Group?
NO
640
Define Group for Query
YES
650
Add Query to Defined Group
660
Waiting Period Expired?
YES
NO
For Each Group, Generate New Query that Satisfies All Queries in Group
670
680
Process New Queries
Use Result Set of Each New Query to Generate Result Sets for All Queries in Group
690
End

FIG. 6